

SEQ ID NO:1

FIGURE 1

CCCGAGGTGCGCGGTCTTTAAGGCGGTCCTGGTGGTTCTGTTCTGAAGGA
AGTACGGGGGGTGGATTGAATGAAAAGTCAAAACACAGGCTCGCAGCGCTGGA
GCCCGGGGCCGGAGCCGGCCGGCAGCGCCGTCTCCGCCTCGGGGCCGG
GGCGCCCTGCTGAGCGCTACCCACGTGCGTCCGCCACCTCGGGCGACCCCG
CGGCCAAGGCCCCGGCGAGCGGCTCCGGCCGGGAACTAGCCCCAACTTT
GGCGAAGTTGCCTGCGCCTCTCCCCGCCACCGCGCGCCGGGCCGCGGA
CGGCAGCGCCCCGGGATGCGCCTTCCGGGTAACCCCTGGCGCCCTGCGCT
GCTGCTGCTGCGCTGCGCCTGCGCTGGGAACGGGTGCGCCGGCGAGCT
CGGGTCCCGTGCCTGCCGACGGCAGGTGACCGAGGAGAGCCTGCAGGCG
ACAGCGACCGGGACAGCATCAGCCTCGAGCTGCGCAAGCCCAGGGACCCCTCGC
TCCTCACCGCCGACTCAAGAAGGATGTGAAGGTCTTCCGGCCCTGATCCTGGG
GAGCTGGAGAAGGGCAGAGTCAGTTCCAGGCCCTGCTTGTACCCAGCTGCA
GCACAATGAGATCATCCCCAGTGAGGCCATGGCCAAGCTCCGGCAGAAAAATCCC
GGCAGTGCAGGCCAGGCGAGGAGGTTGGGCTGGAGCATCTGCACATGGATGTC
GCTGCAACTCAGCCAGGGGCCCTGCTGAGCCCCATCTCCACAAACGTGTGTGCC
GAGGCCGTGGATGCCATCTACACCCGCCAGGAGGATGTCCGGTTCTGGCTGGAGCA
AGGTGTGGACAGTTCTGTGTCAGGCTCTGCCAAGGCCTCAGAGCAGGGAGC
TGCCTCGCTGCAGGCAGGTGGGGACCGCGGGAAAGCCCTGCGTCTGCCACTATGGC
CTGAGCCTGGCCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGCACCGGCC
ACGCCCTACAAGTGTGGCATCCGCAGCTGCCAGAAAGAGCTACAGCTTCGACTTCTAC
GTGCCCTAGAGGCAGCTGTCTGGATGAGGATCCCTACCCAGGCTAGGGTGG
GAGCAACCTGGCGGGTGGCTGCTCTGGCCACTGCTCTCACCAGCCACTAGAGG
GGTGGCAACCCCCACCTGAGGCCTTATTCCCTCCCTCCACTCCCTGGCCCTA
GAGCCTGGGCCCTCTGGCCCATCTCACATGACTGTGAAGGGGTGTGGCATGGCA
GGGGTCTCATGAAGGCACCCCCATTCCACCCCTGCGCTCCTGGCGGGCAGAGAG
GGAGAGAAGGGCTCCCCAGATCTACACCCCTCCCTGCATCTCCCTGGAGTGG
CACTGCAAGCTGCCAAACATGATGGCTCTGGTTGTTGTAACCTGAACACTCCTGAAC
GTTAGACCTAAAAGGAGTCTATACCTGGACACCCACCTCCCCAGACACAACTCCC
TTCCCCATGCACACATCTGGAAAGGAGCTGGCCCTCAGTCCTCCTACTCCCCAAC
AAGGGCTCACTATCCCCAAAGAAGGAGCTGGGGACCCACGACGCAGCCCTG
TACTGGATTACAGCATATTCTCATCTGGCCCCGAGGCTGCCTGTTGGGGCAGTGG
AGACCTCCCATCACTGAGACAGATCACAGACCACGAGTGCCTTCCGGACCTGGAC
GTTGCTCCAAAACAGGCACCAAGCTTCCCTCTAGACAGAAATTTTGAA
GGTCTGGGGCAGGGAGGGAGCATGAAGTACGAGGAAAACCTGAATTCCAGATT
TAATGCAAAGTATTATCATTCTACCAAGAAATAACGTTAAGTTTACTGACT
AATGAGACCCAGAGTTGGAGAAAACCTTGGCCAATGCTGCCACCTGATGTCAGA
AAGTGTCCCCACACCCCTAGCAGTGGCCTATCTTGGAACAGAAACTTCGAAAGCACCT

FIGURE 1 (continued)

ACTGTGTGCTCAGCCATTGAGGAAGGAAGGAGGAAGGAAGATGTTACTAGGGA
AGGATGAGATAAAACTTCTGCACCCAAGACAATGAGACAGACATAACTGCAACCGT
AGTAAGCCAGTCAGAAATAGCCAGCGCGAAGGCAAGAGAGATGGGGTGGAGATTGGA
ACCCCGCTTCAGATCTGGGCTCGGCTACTTACCTGCTGTGCAGCCATGGGTCAAGTT
GCTTGACCTCTGTGCCTCCACTCCCTAGCTATAAAATGAGCTTACTT

SEQ ID NO:2

FIGURE 2

MRLPGVPLARPALLLLPLLAPLLGTGAPAEELRVRVRLPDGQVTEESLQADSDADSISEL
RKPDGTLVSFTADFKKDVKFRALILGELEKGQSQFQALCFVTQLQHNEIIPSEAMAKLR
QKNPRAVRQAEEVRGLEHLHMDVAVNFSQGALLSPHLHNVCAEAVDAIYTRQEDVRF
WLEQGVDSSEVFEALPKASEQAELPRCRQVGDRGKPCVCHYGLSLAWYPCMLKYCHSR
DRPTPYKCGIRSCQKSYSFDFYVPQRQLCLWDEDPYPG*

SEQ ID NO:3

FIGURE 3

MRLPGVPLARPALLLLPLLAPLLG TGAPA

FIGURE 4

Sequence Range: 1 to 2366

10 20 30 40 50 60 70 80 90
 SEQ ID NO:1 CCGCGAGGTGCGCGGTCTTTAAGGCGGTCTGGTGGTTCTGTTCTGAAGGAAGTGAACGGGGGTGGGATTGAATGAAAAGTGCAGCGCTCCACGCCAGAGAAATTCCGCCAGGACCAAGACAAGGACTTCCTCACTGCCACCTAACTTACTTTACGT
 100 110 120 130 140 150 160 170 180
 AAACACAGGCTCGCAGCGCTGGAGCCCGGGCGGGAGCGCCGGCAGCGCCGTCTCCGCCTCGGGCCGCCGGGGCGCCCTGCTTGTCGGAGCTCGGCCCTGGCCGGCGAGGGCCGGAGGCCGGGCGCCCGCGGGACG
 190 200 210 220 230 240 250 260 270
 TGAGCGCTACCCACGTGCGTCCGCGCCACCTCGCGGGCGACCCCGCGCCAAAGGCCCGGGAGCGGCTCCGGGGCGCCCTCGCCGAGGGCCGGCTGGGGCGCCGGTCCGGGGCGCCCTCGCGAGGGCCCGCGGGCTTGATC
 280 290 300 310 320 330 340 350 360
 CCCCCAACCTTGGCGAAGTTGCGCTGCCCTCTCCCGCCCCACCGCGCGCCGGGGCGCGACGGCAGCGGCCGGGGATGCG
 GGGGGTTGAAACCCGCTTCAAACGGACGCCAGAGGGCGGGGTGCGCCGCGGCCCGCGCTGCCGTGCCGGGGCCCTACGC
 SEQ ID NO:2 M R>
 TRANSLATION OF OAFHUMAN [A] >
 370 380 390 400 410 420 430 440 450
 CCTTCCCGGGTACCCCTGGCGCCCTGCGCTGCTGCTGCTGCCGCTGCTCGCGCTGCTGGGAAACGGTGCAGCGCCGGAGCT
 GGAAGGGCCCATGGGACCGCGCGGGACCGACGACGAGCAGCGACGGCAGGCGACGACCCCTGCCACCGCGCCGGCTCGA
 L P G V P L A R P A L L L P L L A P L L G T G A P A E L >
 TRANSLATION OF OAFHUMAN [A] >
 460 470 480 490 500 510 520 530 540
 GCGGGTCCCGTGCCTGGGACGGGACGGTGAACGGAGAGGGAGACGGCAGCGACAGCATCAGCCTCGAGCTGCG
 CGCCCAAGCGCACGCCGACGGCCTGCCGGTCACTGGCTCTCGGAGCTGCCCTGCGCTGCCCTGCGTAGTCGGAGCTCGACGC
 R V R V R L P D G Q V T E E S L Q A D S D A D S I S L E L R >
 TRANSLATION OF OAFHUMAN [A] >
 550 560 570 580 590 600 610 620 630
 CAAGCCCCACGGCACCCCTGCTCCTTCACCGCCGACTCAAGAAGGATGTGAAGGTCTCCGGGGCCCTGATCTGGGGAGCTGGAGAA
 GTTCGGGCTCCGTGGAGCACAGGAAGTGGGGCTGAAGTTCTCCTACACTTCCAGAAGGCCGGACTAGGACCCCTGACCTT
 K P D G T L V S F T A D F K K D V K V F R A L I L G E L E K >
 TRANSLATION OF OAFHUMAN [A] >
 640 650 660 670 680 690 700 710 720
 GGGCAGAGTCAGTCCAGGCCCTCTGCTTGTCAACCGAGCTGCAAGCACATGAGATCATCCCCAGTGAAGGCAAGCTCCGGCA
 CCCGCTCAAGTCAGGTCGGGAGACGAAACAGTGGGTGACGTCGTGTTACTCTAGTAGGGTCACTCCGGTACCGGTTGAGGCCGT
 G Q S Q F Q A L C F V T Q L Q H N E I I P S E A M A K L R Q >
 TRANSLATION OF OAFHUMAN [A] >
 730 740 750 760 770 780 790 800 810
 GAAAAAAATCCCCGGGAGTGGCGCAGGGAGGGAGTTGGGGCTGGAGCATCTGCACATGGATGTCGCTGTCAACTTCAGCCAGGGGC
 CTTTTAGGGGCCGTACGCCGTCGCCCTCCAGCCCCAGACCTCGTAGACGTGTACCTACAGCGACAGTGAAGTCGGTCCCCCG
 K N P R A V R Q A E E V R G L E H L H M D V A V N F S Q G A >
 TRANSLATION OF OAFHUMAN [A] >
 820 830 840 850 860 870 880 890 900
 CCTGCTGAGCCCCATCCACAACGTGTGCGCAGGGCGTGGATGCCATCTACACCCGCCAGGGAGGATGTCGGGTTCTGGCTGGAGCA
 GGACGACTCGGGGTAGAGGTGTTGACACACGGCTCCGCACCTACGGTAGATGTCGGGCGTCCCTACAGCCAAGACCGACCTCGT
 L L S P H L H N V C A E A V D A I Y T R Q E D V R F W L E Q >
 TRANSLATION OF OAFHUMAN [A] >
 910 920 930 940 950 960 970 980 990
 AGGTGTGGACAGTTCTGTTGAGGCTCTGCCAAGGCTCAGAGCAGGGAGCTGCTCGTCAGGCAGGTGGGGGACCGCGGGAA
 TCCACACCTGTCAAGACACAAGCTCCGAGACGGGTTCCGGAGTCTCGTCGCCCTCGACGGAGCGACGTCCCTGCCACCCCTGCGCCCTT
 G V D S S V F E A L P K A S E Q A E L P R C R Q V G D R G K >
 TRANSLATION OF OAFHUMAN [A] >
 1000 1010 1020 1030 1040 1050 1060 1070 1080
 GCCCTCGCTGCCACTATGGCCTGAGCTGGCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGAGCCGGCCACGCCCTACAA
 CGGACGCCAGACGGTGTACCCGACTCGGCCACCATGGGAGCTACGGAGTTCATGACGGTGTCCGGCTGGCCGGTGCAGGGATGTT
 P C V C H Y G L S L A W Y P C M L K Y C H S R D R P T P Y K >

FIGURE 4 (continued)

TRANSLATION OF OAFHUMAN [A] >

1090 1100 1110 1120 1130 1140 1150 1160 1170
 GTGTGGCATCCGAGCTGCCAGAAAGAGCTACAGCTTCACTACGTGCCAGAGGGCAGCTGTCTCTGGGATGAGGATCCCTACCC
 CACACCGTAGGCGTCAGCGTCTCGATGTCAGAGCTGAACAGATGCACGGGTCTCGTCAACAGAGACCCACTCCTAGGGATGGG
 C G I R S C Q K S Y S F D F Y V P Q R Q L C L W D E D P Y P>
 > TRANSLATION OF OAFHUMAN [A] >

1180 1190 1200 1210 1220 1230 1240 1250 1260
 AGGCTAGGGTGGGAGCAACCTGGCGGGTGGCTCTGGGCCACTGCTCTCACAGGCCACTAGAGGGGGTGGCAACCCCCACCTGAG
 TCCGATCCCACCCCTGTTGGACCCGCCACCGACGAGACCCGGGTACGAGAAGTGGTGGTATCTCCCCCACCGTGGGGTGGACTC
 G *

1270 1280 1290 1300 1310 1320 1330 1340 1350
 GCCTTATTCCTCCCTCCCCACTCCCCCTGGCCCTAGAGCCTGGGCCCTCTGGCCCATCTCACATGACTGTGAAGGGGGTGTGGCATG
 CGGAATAAGGGAGGGAGGGGAGGGGACCGGGATCTCGGACCCGGGAGACCGGGTAGAGTGTACTGACACTCCCCCACCGTAC

1360 1370 1380 1390 1400 1410 1420 1430 1440
 GCAGGGGGTCTCATGAAGGCACCCCCATTCCCACCCCTGTGCGCTCCTGCGGGCAGAGAGGGAGAGAAGGGCTCCCACTACACCC
 CGTCCCCCAGAGTACTCCGTGGGGTAAGGGTGGACACGGAAGAACGCCGTCTCCCTCTTCCGAGGGGTCTAGATGTGGGG

1450 1460 1470 1480 1490 1500 1510 1520 1530
 TCCCTCTGCATCTCCCTGGAGTGTTCACCTGCAAGCTGCCAAACATGATGGCCTCTGGTTGTCTGTTGAACCTCTGAACGTTAG
 AGGGAGGACGTAGAGGGACCTCACAGTGAACGTTGACGGTTGTACTACCGAGACCAACAAGACAATTGAGGAACCTGCAAATC

1540 1550 1560 1570 1580 1590 1600 1610 1620
 ACCCTAAAAGGAGTCTATACCTGGACACCCACCTCCCCAGACACAACCTCCCTCCCCATGCACACATCTGGAAGGAGCTGGCCCTCAGT
 TGGGATTTCCCTCAGATATGGACCTGTGGGGTGGAGGGGCTGTGTGAGGGTAGCTGTAGACCTCCCTCGACCAGGGAGTCAG

1630 1640 1650 1660 1670 1680 1690 1700 1710
 CCCCTCTACTCCCCAACAGGGGCTACTATCCCCAACAGAGGCTGTTGGGGACCCACGACCCCTGTACTGGATTACACCAT
 GGGAGGATGAGGGGTTGTTCCCGAGTGTAGGGGTTCTTCCTCGACAACCCCTGGGTGCTGCGTGGGACATGACCTAATGCGTA

1720 1730 1740 1750 1760 1770 1780 1790 1800
 ATTCTCATCTCTGGCCCGAGGCTGCGCTGTGGGGCAGTGGAGACCTCCCATCACTGAGACAGATCACAGACCAAGCAGTGCCTTCCCG
 TAAGAGTAGAGACCGGGGCTCGACGGACACCCCGTCACCTGTGGGGTAGTGTACTCTGTCTAGTGTCTGGTGTACGGAAAGGGC

1810 1820 1830 1840 1850 1860 1870 1880 1890
 ACCTGGACGTTGCCTCCAAAACAGGCACCAAGCTTTCCCTCTCTAGACAGAAATTTTGTAAAGGTTCTGGGCAGGGAGGGAGCATG
 TGGACCTGCAACGGAGGTTTGTCCGTGGTCAGAAAGGGAGAGATCTGTCTTATAAAACATTCAAGACCCCGTCCCTCCCTCGTAC

1900 1910 1920 1930 1940 1950 1960 1970 1980
 AAGTACGAGGAAAATTGAAATTCCAGATTAAATGCAAAGTATTATCATTCTACAGAAATAAACGTTAAAGTTTACTTGACTA
 TTCATGCTCCTTTGAACCTAACGTTCAAGGTCTAAATTACGTTCATAAATAGTAAAGATGGTCTTTATTCGAAAATTCAAAATGAAC

1990 2000 2010 2020 2030 2040 2050 2060 2070
 ATGAGACCCAGAGTTGGAGAAAATTGGCCAATGCTGCCACCTGTGATGTCAGAAAGTGTCCCCACACCCCTAGCAGTGGCTATCTGG
 TACTCTGGGTCTCAAACCTCTTGAAAACCGGTTACGACGGTGGACTACAGTCTTCACAGGGGTGTTGACCTGTCACCGGATAGAAC

2080 2090 2100 2110 2120 2130 2140 2150 2160
 AACAAAGAACTTCGAAAGCACCTACTGTGTCAGCCATTGAGGAAGGAAGGAGAGAAGGAAGATGTTACTAGGGAAAGGATGAGATAA
 TTGTTCTGAAGCTTCGTGGATGACACACGAGTCGTAACACTCTTCCTCCTCTTACAATGATCCCTCCTACTCTATT

2170 2180 2190 2200 2210 2220 2230 2240 2250
 AACTCTGCACCAAGACAATGAGACAGACATACTGCAACCGTAGTAAGCCAGTCAGAAATAGCCAGCGCGAAGGCAAGAGATGGGGT
 TTGAAGACGTGGGTCTGTTACTCTGTCTGTATTGACGTTGGCATCTCGTCAGTCTTATCGGTGCGCTCCGTTCTACCCAC

2260 2270 2280 2290 2300 2310 2320 2330 2340
 GAGATTGGAACCCCGCTTCAGATCTGGGCTCGGCTACTTACCTGCTGTCAGCCATGGGTCAAGTTGCTTGACCTCTGTGCGCTCCACT
 CTCTAACCTGGGGCGAAGTCTAGACCCGAGCCGATGGACGACACGTCGGTACCCAGTTCAACGAACGAACTGGAGAGACACGGAGGTGA
 2350 2360
 CCCTTAGCTATAAAATGAGCTTACT
 GGGAAATCGATATTCTCGAATGAA

FIGURE 5

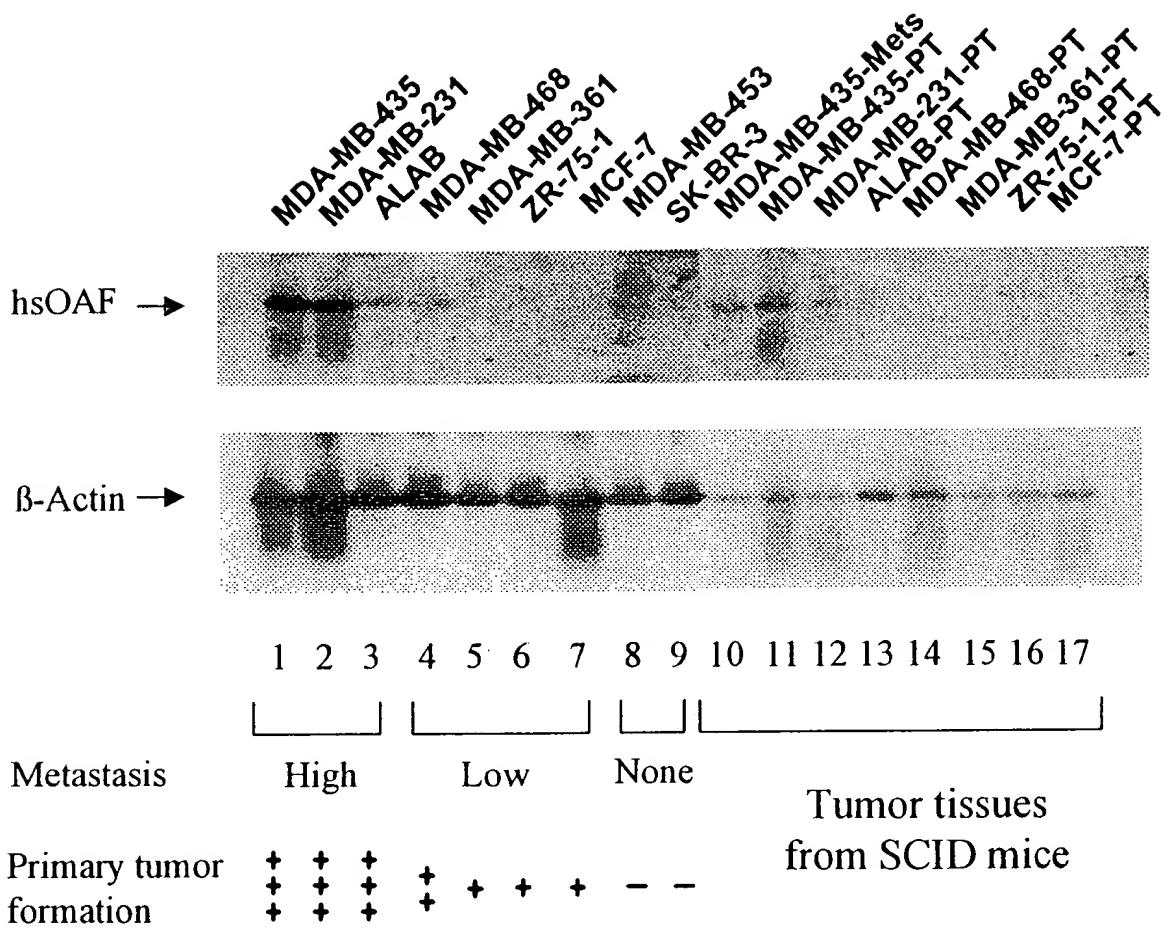


FIGURE 6

MDA-MB-435 soft agar colonies normalized to WST1

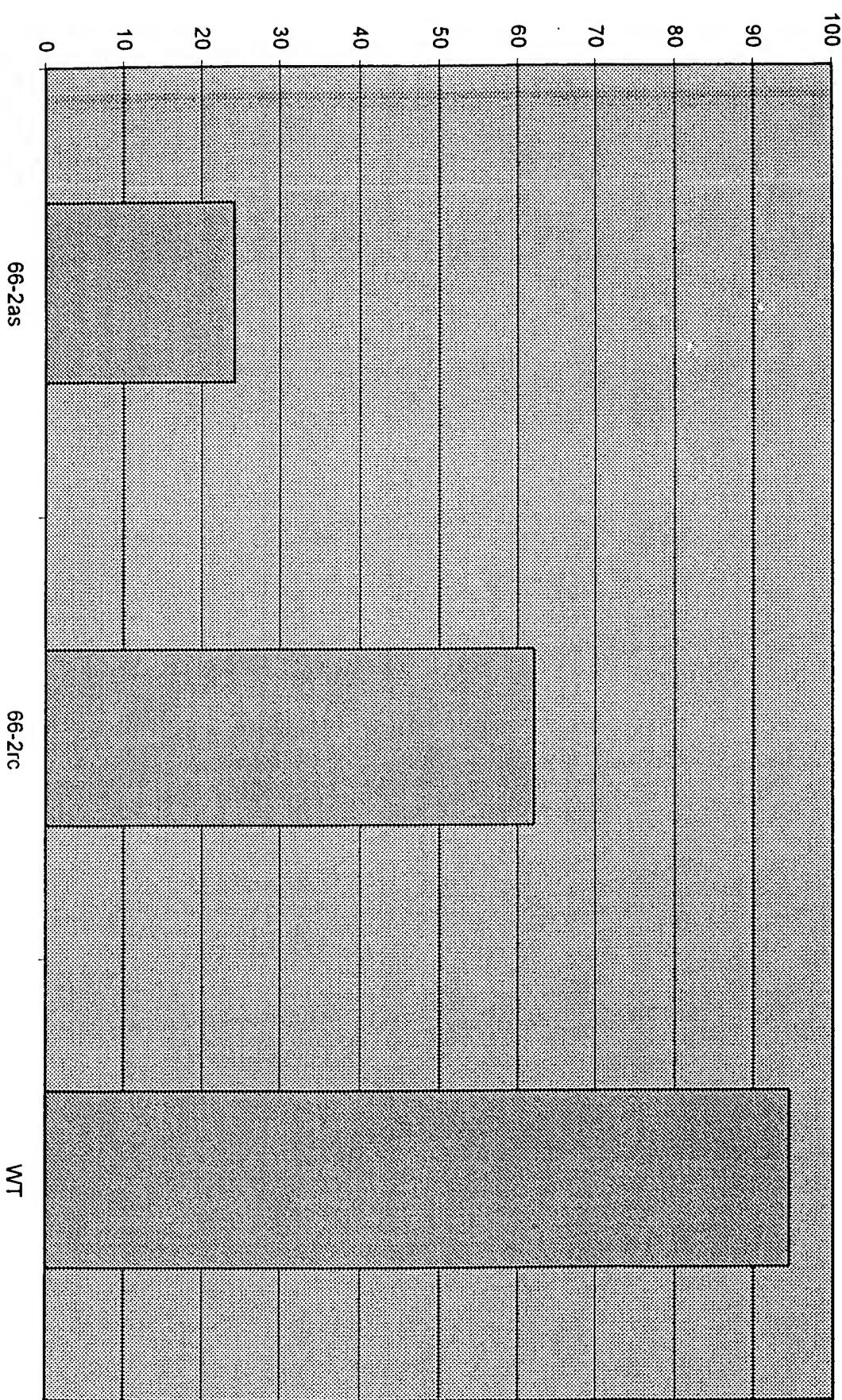


FIGURE 7

FIGURE 8A

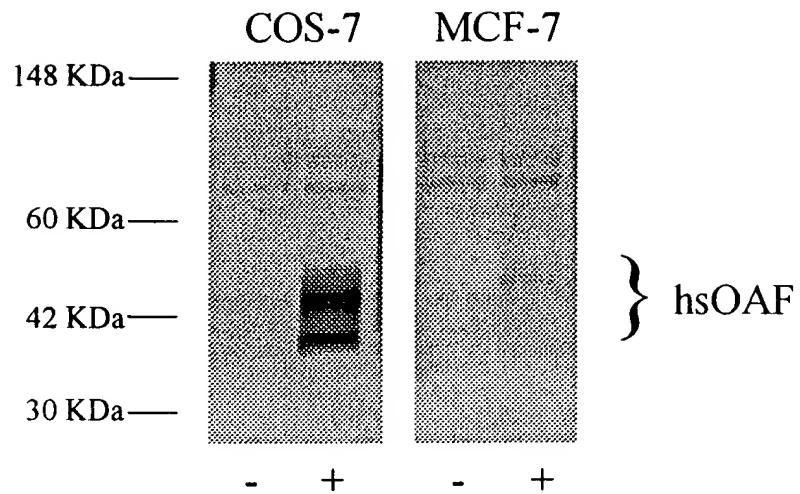


FIGURE 8B

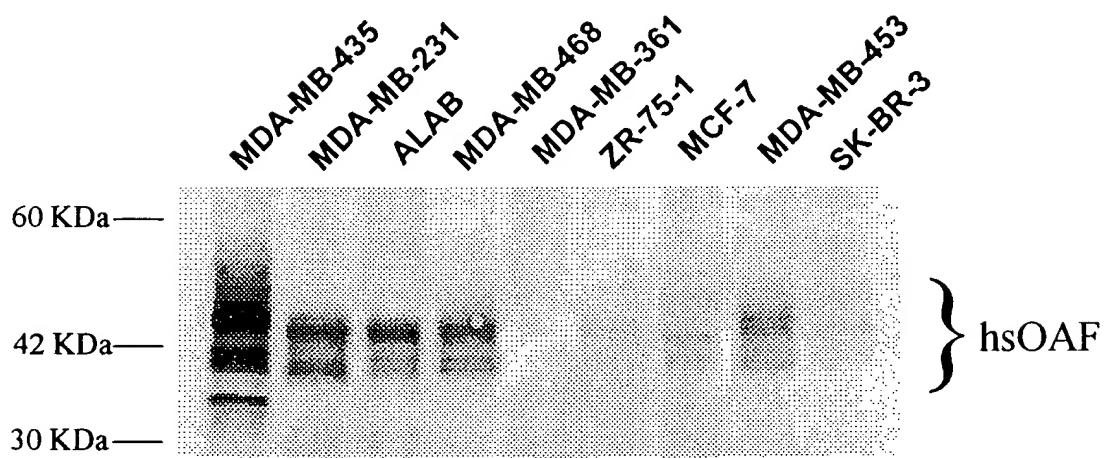


FIGURE 9

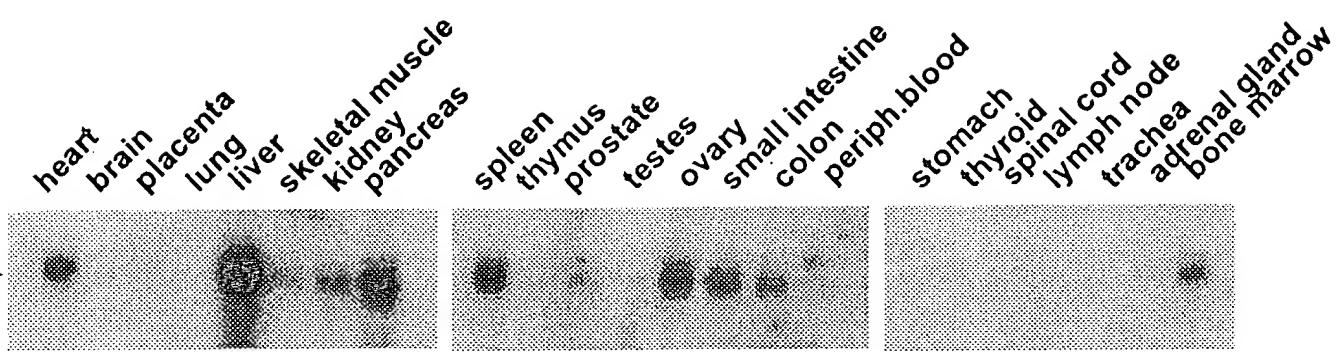
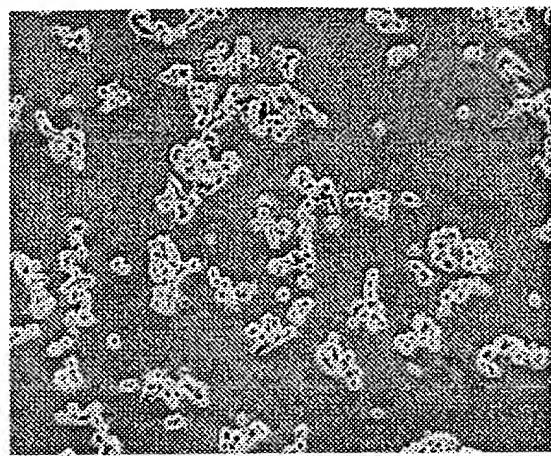
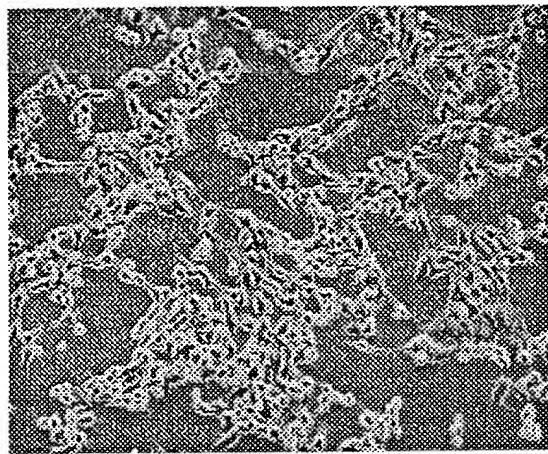


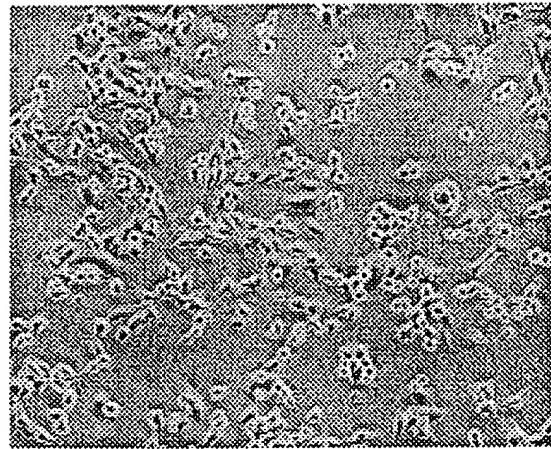
FIGURE 10A



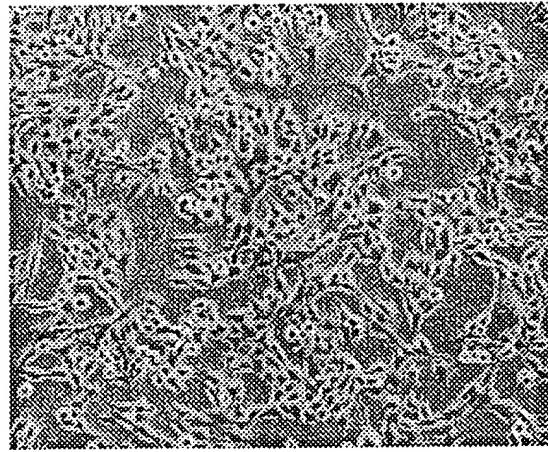
AS



RC

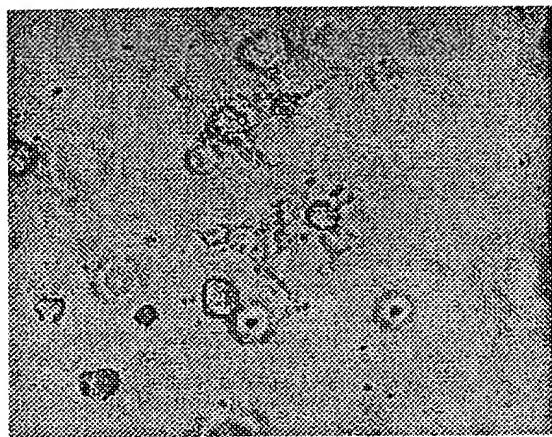


AS+M

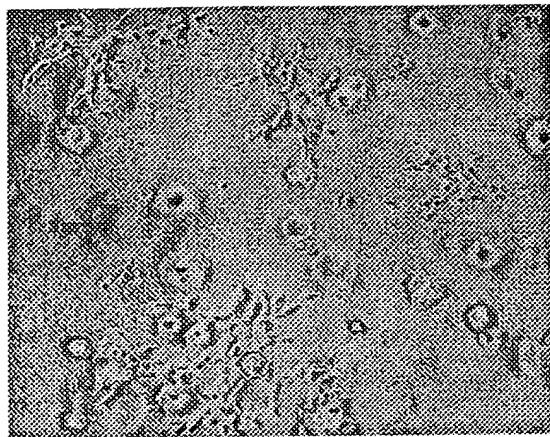


Normal

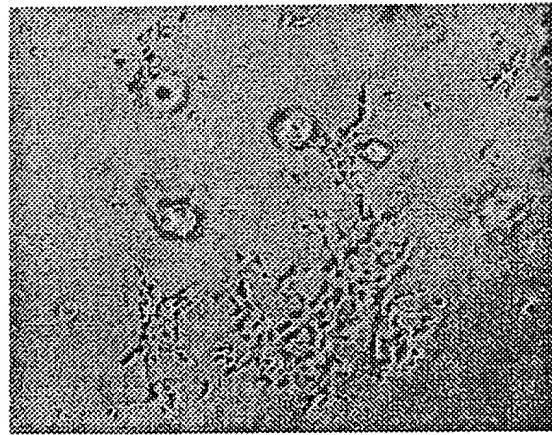
FIGURE 10B



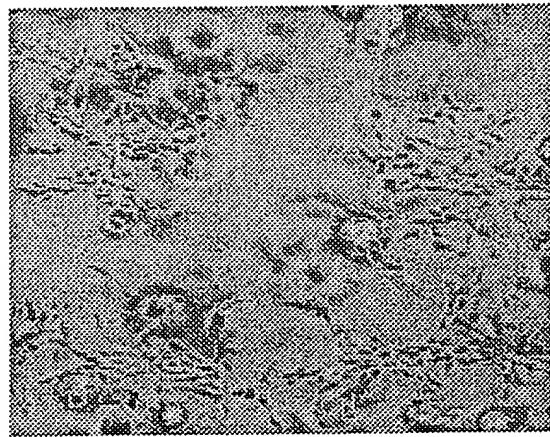
AS



RC



AS+M



Normal

FIGURE 11

FIGURE 12A

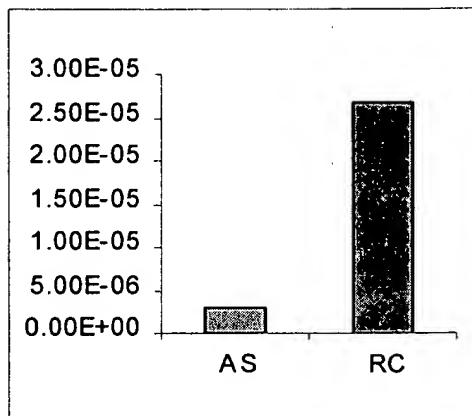


FIGURE 12B

